

CLAIMS

1. A closure cap (10) for the filler neck (11) of a container (12), in particular of a container for fuel or motor oil for motor vehicles, for instance, having a grip (14) and having a rotary lifting device (13) whose one part (sealing part 15), oriented toward the grip (14), is provided with a sealing ring (16) and whose other part (tightening part 18), remote from the grip (14) and provided with a locking lugs (44) for engaging a closure cap (62) of the filler neck (11) from below is rotatable relative to the filler neck (11) upon a rotary motion of the closure cap (10), and upon the rotary motion of the grip (14), the other part (tightening part 18) is axially movable relative to the one part (tightening part 15) of the rotary lifting device (13) counter to the force of a spring (19), in such a manner that in the closing position of the closure cap (10) on the filler neck (11), the sealing ring (16) provided on the one part (sealing part 15) is pressed against a sealing face (63) of the filler neck (11), and during the motion of the grip (14), an axial play exists between the sealing faces of the sealing ring (16) and of the filler neck (11), characterized in that the one part (sealing part 15) with the axially acting sealing ring (16), upon a rotary motion of the closure cap (10) relative to the filler neck (11), remains nonrotatable with the filler neck by means of a rotation- locking connection (31, 65).

2. The closure cap as defined by claim 1, characterized in that the one part (sealing part 15), provided with at least one rotation-locking connection element (31), is solidly connected to a radial flange (28) which is retained axially immovably but rotatably in the grip (14).

3. The closure cap as defined by claim 1 or 2, characterized in that the other part (tightening part 18), provided with the locking lugs (44), is embodied as a ring element (39, 40) and is disposed plunging axially partway into a ring element (30) of the one part (sealing part 15).

4. The closure cap as defined by claim 3, characterized in that the two ring elements (30; 39, 40), on their regions plunging into one another, are provided with sliding-block elements (32, 33), acting in the direction of rotation, in the form of at least one sliding-block path and at least one cam (42, 43).

5. The closure cap as defined by at least one of the foregoing claims, characterized in that the one part (sealing part 15) and the other part (tightening part 18) are penetrated by a shaft (20), which is connected in a manner fixed against relative rotation to the grip (14) on one end and to the other part (tightening part 18) on the other.

6. The closure cap as defined by claims 3 or 4 and 5, characterized in that the spring is disposed in the form of a compression spring between the other part (tightening part 18) and the shaft (20).

7. The closure cap as defined by claim 5, characterized in that the shaft (20) is a cylindrical body (52), which is provided with a cover plate (51) and whose open end, by means of axial slots (55) engaging via ribs (25) of the grip (14), forms a rotation-locking connection with the grip (14) on the one hand, and whose closed end, by means

of fingers (53) axially protruding from the cover plate (51) and engaging inner axial recesses (46) of the other part (tightening part 18), forms a rotation-locking connection with the other part on the other hand.

8. The closure cap as defined by claim 6 or 7, characterized in that the shaft (20) enters into an axially acting detent connection with the one part (sealing part 15).

9. The closure cap as defined by at least one of the foregoing claims, characterized in that the locking lugs (44) of the other part (tightening part 18) and the rotation- locking connection elements (31) of the one part (sealing part 15) each have approximately the same width in the circumferential direction.

10. The closure cap as defined by at least one of the foregoing claims, characterized in that the sealing ring (16) is embodied as a molded part, with toothed sealing face regions optionally oriented toward the filler neck (11).

11. An underpressure ventilation device, in particular on a closure cap as defined by claim 1 and at least one of claims 5 through 10, characterized in that the shaft (20) on the outer circumference has a sealing ring disk (17), which is axially retained on the inner edge on the shaft (20) and is placed on the outer edge against an axial sealing face (41) on the one part (sealing part 15) with intrinsic tension.

12. The underpressure ventilation device as defined by claim 11, characterized in that the sealing ring disk (17) is embodied as curved convexly toward the axial sealing face (41).

13. The underpressure ventilation device as defined by claim 11 or 12, characterized in that on the side of the sealing ring disk (17) remote from the axial sealing face (41), an annular bead (48) is disposed on the other part (tightening part 18), in a region between the inner and outer edges of the sealing ring disk (17).

14. The underpressure ventilation device as defined by claim 13, characterized in that the annular bead (48) is disposed at a slight axial spacing from the applicable face region, oriented toward it, of the sealing ring disk (17).

15. A filler neck (11) of a container (12), in particular of a container for fuel or motor oil, for instance for motor vehicles, in particular for use with a closure cap (10) as defined by claim 1 and optionally at least one of the ensuing claims 2 through 10, having a sealing face (63) surrounding the neck opening (66) and having a closure base (62), which is disposed inside the neck opening (66) and is axially offset relative to the sealing face (73), the closure base having preferably two diagonally disposed receiving slots (65), characterized in that the sealing face is formed by a flat or plane annular sealing face (63).

16. The filler neck as defined by claim 15, characterized in that the flat annular sealing face (63) is several millimeters wide.

17. The filler neck as defined by claim 12 or 13, characterized in that the underside (69) of the closure base (62) is a flat or plane annular-segmental face.

18. The filler neck as defined by one of claims 15 through 17, characterized in that the filler neck (11), at least in the region of the neck opening (66) and of the closure base, is a cast or molded part.